

10/729,263

(FILE 'HOME' ENTERED AT 17:06:03 ON 27 SEP 2004)

FILE 'CAPLUS' ENTERED AT 17:06:18 ON 27 SEP 2004

=> s cyclometallated iridium compound

204 CYCLOMETALLATED  
35246 IRIDIUM  
91121 COMPOUND

L1 0 CYCLOMETALLATED IRIDIUM COMPOUND  
(CYCLOMETALLATED(W) IRIDIUM(W) COMPOUND)

=> s cyclometallating ligand

14 CYCLOMETALLATING  
264995 LIGAND

L2 4 CYCLOMETALLATING LIGAND  
(CYCLOMETALLATING(W) LIGAND)

=> s 12 and diol

68294 DIOL

L3 1 L2 AND DIOL

=> d bib abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:751514 CAPLUS

DN 123:286256

TI 2,2':6',4''-Terpyridine: a cyclometalating analog of 2,2':6',2''-terpyridine (tpy) for metallosupramolecular chemistry

AU Constable, Edwin C.; Cargill Thompson, Alexander M. W.; Cherryman, Julian; Liddiment, Tracy

CS Institut fuer Anorganische Chemie der Universitaet, Spitalstrasse 51, Basel, CH-4056, Switz.

SO Inorganica Chimica Acta (1995), 235(1-2), 165-71

CODEN: ICHAA3; ISSN: 0020-1693

PB Elsevier

DT Journal

LA English

AB The reaction of [Ru(tpy)Cl<sub>3</sub>] with the potentially **cyclometallating ligand** 2,2':6',4''-terpyridine (HL) results in the formation of the non-metalated complex ion [Ru(tpy)(HL)Cl]<sup>+</sup> and the complex ion [Ru(tpy)(LH)]<sup>2+</sup> in which the cyclometallated ligand L is protonated on the non-coordinated nitrogen atom. If ethane-1,2-**diol** is used as the solvent the latter complex is the major product, while the use of glacial acetic acid favors the former. This electron-withdrawing pyridinium functionality significantly affects the properties of the complex. In contrast, the non-metalated complex behaves like similar ruthenium complexes with N5Cl donor sets. Both complexes have been fully characterized as their hexafluorophosphate salts, and studied by cyclic voltammetry and electronic spectroscopy. The complex [Ru(tpy)(LH)][PF<sub>6</sub>]<sub>2</sub> is weakly luminescent at room temperature in acetonitrile solution

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<b>L Number</b>	<b>Hits</b>	<b>Search Text</b>	<b>DB</b>	<b>Time stamp</b>
<b>3</b>	<b>737</b>	<b>iridium adj compound</b>	<b>USPAT; US-PGPUB; EPO; JPO</b>	<b>2004/09/27 16:58</b>
<b>4</b>	<b>9</b>	<b>(iridium adj compound) and cyclometallated</b>	<b>USPAT; US-PGPUB; EPO; JPO</b>	<b>2004/09/27 16:59</b>
<b>5</b>	<b>0</b>	<b>((iridium adj compound) and cyclometallated) and (diol adj solvent)</b>	<b>USPAT; US-PGPUB; EPO; JPO</b>	<b>2004/09/27 16:59</b>
<b>6</b>	<b>0</b>	<b>(iridium adj compound) and (cyclometallating adj ligand)</b>	<b>USPAT; US-PGPUB; EPO; JPO</b>	<b>2004/09/27 17:00</b>